L Number	Hits	Search Text	DB	Time stamp
1	1	20030085349.pn.	USPAT;	2003/12/03
		5451700 5006507 5000610	US-PGPUB	11:41
2	7	5451782.pn. or 5206507.pn. or 5200613.pn. or 5171991.pn. or 5352890.pn. or	USPAT; US-PGPUB	2003/12/03 11:46
3 .	1856	4882484.pn. or 5198665.pn. (250/281,282,290,292).CCLS.	USPAT;	2003/12/03
4	0	("L3and((ionadjtrap)near3(massadjspectrome		11:46 2003/12/03
5	338	((250/281,282,290,292).CCLS.) and ((ion	US-PGPUB USPAT;	11:49 2003/12/03
6	19	adj trap) near3 (mass adj spectromet\$5)) (((250/281,282,290,292).CCLS.) and ((ion	US-PGPUB USPAT;	11:50 2003/12/03
7	1	adj trap) near3 (mass adj spectromet\$5))) and ((gas near3 introd\$7) near5 (inlet or hole or orifice or port\$3 or opening)) ((((250/281,282,290,292).CCLS.) and ((ion	US-PGPUB USPAT;	2003/12/03
,		adj trap) near3 (mass adj spectromet\$5))) and ((gas near3 introd\$7) near5 (inlet or hole or orifice or port\$3 or opening))) and (((AC or RF or supplemental) adj voltage) near3 (broadband or (frequency adj (scan\$4 or vari\$6))))	US-PGPUB	12:35
,	0		USPAT; US-PGPUB	2003/12/03
9	0	((((250/281,282,290,292).CCLS.) and ((ion adj trap) near3 (mass adj spectromet\$5))) and ((gas near3 introd\$7) near5 (inlet or hole or orifice or port\$3 or opening))) and ((supplemental adj voltage) with (frequency near3 scan\$4))	USPAT; US-PGPUB	2003/12/03 12:00
10	0	<pre>(((((250/281,282,290,292).CCLS.) and ((ion adj trap) near3 (mass adj spectromet\$5))) and ((gas near3 introd\$7) near5 (inlet or hole or orifice or port\$3 or opening)) and (((AC or RF or supplemental) adj voltage) near3 (broadband or (frequency adj (scan\$4 or vari\$6)))) and dissociation</pre>	USPAT; US-PGPUB	2003/12/03 12:00
11	0		USPAT; US-PGPUB	2003/12/03 12:01
12	9	<pre>((((250/281,282,290,292).CCLS.) and ((ion adj trap) near3 (mass adj spectromet\$5))) and ((gas near3 introd\$7) near5 (inlet or hole or orifice or port\$3 or opening))) and dissociat\$5</pre>	USPAT; US-PGPUB	2003/12/03 12:02
13	6	(5451782.pn. or 5206507.pn. or 5200613.pn. or 5171991.pn. or 5352890.pn. or 4882484.pn. or 5198665.pn.) and dissociat\$5	USPAT; US-PGPUB	2003/12/03 12:02
15	0	<pre>((((((250/281,282,290,292).CCLS.) and   ((ion adj trap) near3 (mass adj   spectromet\$5))) and ((gas near3 introd\$7)   near5 (inlet or hole or orifice or port\$3   or opening))) and dissociat\$5) and (bath   adj gas)</pre>	USPAT; US-PGPUB	2003/12/03 12:05
14	1	20030085349.pn. and dissociat\$5	USPAT; US-PGPUB	2003/12/03 12:06

<u> </u>	T			
16	0	((((250/281,282,290,292).CCLS.) and ((ion adj trap) near3 (mass adj spectromet\$5)))	USPAT; US-PGPUB	2003/12/03 12:09
	ŀ	and ((gas near3 introd\$7) near5 (inlet or	OD FGFOB	12.09
		hole or orifice or port\$3 or opening))) and ((gas near3 introd\$7) near5 (inlet or		
		hole or orifice or port\$3 or opening)		
1,7	1.0	near3 (ring adj electrode))		
17	19	(((((250/281,282,290,292).CCLS.) and ((ion adj trap) near3 (mass adj spectromet\$5)))	USPAT; US-PGPUB	2003/12/03 12:09
		and ((gas near3 introd\$7) near5 (inlet or	03-PGP0B	12:09
		hole or orifice or port\$3 or opening)))		
		and ((gas near3 introd\$7) near5 (inlet or hole or orifice or port\$3 or opening))		
18	1	((((250/281,282,290,292).CCLS.) and ((ion	USPAT;	2003/12/03
		<pre>adj trap) near3 (mass adj spectromet\$5))) and ((gas near3 introd\$7) near5 (inlet or</pre>	US-PGPUB	12:11
		hole or orifice or port\$3 or opening)))		
		and ((gas near3 introd\$7) near5 (inlet or		
		hole or orifice or port\$3 or opening) with (ring adj electrode))		
19	0	((((250/281,282,290,292).CCLS.) and ((ion	USPAT;	2003/12/03
		adj trap) near3 (mass adj spectromet\$5))) and ((gas near3 introd\$7) near5 (inlet or	US-PGPUB	12:10
		hole or orifice or port\$3 or opening)))		
		and ((gas near3 hole) with (ring adj		
20	1	electrode))   (((250/281,282,290,292).CCLS.) and ((ion	USPAT;	2003/12/03
		adj trap) near3 (mass adj spectromet\$5)))	US-PGPUB	12:11
		and ((gas near3 introd\$7) near5 (inlet or hole or orifice or port\$3 or opening)		
		with (ring adj electrode))	1	
21	0	(((250/281,282,290,292).CCLS.) and ((ion	USPAT;	2003/12/03
		<pre>adj trap) near3 (mass adj spectromet\$5))) and ((gas near3 introd\$7) near5 (inlet or</pre>	US-PGPUB	12:12
		hole or orifice or port\$3 or opening)		
22	13	near3 (ring adj electrode)) (((250/281,282,290,292).CCLS.) and ((ion	USPAT;	2003/12/03
		adj trap) near3 (mass adj spectromet\$5)))	US-PGPUB	12:32
		and ((inlet or hole or orifice or port\$3 or opening) near3 (ring adj electrode))		
23	3	5399857.pn. or 6005245.pn. or 6469298.pn.	USPAT;	2003/12/03
24	1.0	(4250/201 200 200 200) 7777 ) 1 44477	US-PGPUB	12:33
24	12	((250/281,282,290,292).CCLS.) and (((AC or RF or supplemental) adj voltage) near3	USPAT; US-PGPUB	2003/12/03
		(broadband or (frequency adj (scan\$4 or	05 10105	12
25		vari\$6)))) (5399857.pn. or 6005245.pn. or	USPAT;	2003/12/03
		6469298.pn.) and (((AC or RF or	US-PGPUB	12:34
		supplemental) adj voltage) near3		
		<pre>(broadband or (frequency adj (scan\$4 or vari\$6))))</pre>		
26	1	6627875.pn.	USPAT;	2003/12/03
27	0	6627875.pn. and (((AC or RF or	US-PGPUB USPAT;	12:35 2003/12/03
		supplemental) adj voltage) near3	US-PGPUB	12:35
		<pre>(broadband or (frequency adj (scan\$4 or vari\$6))))</pre>		
28	0	(5399857.pn. or 6005245.pn. or	USPAT;	2003/12/03
		6469298.pn.) and (((AC or RF or	US-PGPUB	12:44
		supplemental) adj voltage) near3 (broadband or (frequency adj (scan\$4 or		
		vari\$6))))		
29	0	(((((250/281,282,290,292).CCLS.) and ((ion adj trap) near3 (mass adj	USPAT; US-PGPUB	2003/12/03 12:44
		spectromet\$5))) and ((gas near3 introd\$7)	JJ EGEUD	16.11
		near5 (inlet or hole or orifice or port\$3		
		or opening))) and ((gas near3 hole) with (ring adj electrode))) and (((AC or RF or		
		supplemental) adj voltage) near3		
		(broadband or (frequency adj (scan\$4 or vari\$6))))		

	1	1////050/004 000 000		
30	1	(((((250/281,282,290,292).CCLS.) and ((ion adj trap) near3 (mass adj	USPAT; US-PGPUB	2003/12/03 12:54
		spectromet\$5))) and ((gas near3 introd\$7) near5 (inlet or hole or orifice or port\$3		
		or opening))) and ((gas near3 introd\$7) near5 (inlet or hole or orifice or port\$3		
		or opening))) and (((AC or RF or		
		supplemental) adj voltage) near3   (broadband or (frequency adj (scan\$4 or		*
31	0	<pre>vari\$6)))) (((((250/281,282,290,292).CCLS.) and</pre>	USPAT;	2003/12/03
		((ion adj trap) near3 (mass adj	US-PGPUB	12:46
		spectromet\$5))) and ((gas near3 introd\$7) near5 (inlet or hole or orifice or port\$3		
<u> </u>		or opening))) and ((gas near3 introd\$7) near5 (inlet or hole or orifice or port\$3		
		or opening))) and (((AC or RF or		
		supplemental) adj voltage) near3   ((frequency adj (scan\$4 or vari\$6))))		
32	48	((((((250/281,282,290,292).CCLS.) and ((ion adj trap) near3 (mass adj	USPAT; US-PGPUB	2003/12/03
		spectromet\$5))) and ((gas near3 introd\$7)	05 10105	12.47
		near5 (inlet or hole or orifice or port\$3 or opening))) and ((gas near3 introd\$7)		
		near5 (inlet or hole or orifice or port\$3 or opening))) and (((AC or RF or		
		supplemental) adj voltage) near3		
		(broadband or (frequency adj (scan\$4 or vari\$6))))) (hole near3 endcap)		
33	0	((((((250/281,282,290,292).CCLS.) and ((ion adj trap) near3 (mass adj	USPAT; US-PGPUB	2003/12/03
ĺ		spectromet\$5))) and ((gas near3 introd\$7)	05 10102	12.17
		near5 (inlet or hole or orifice or port\$3 or opening))) and ((gas near3 introd\$7)		
		near5 (inlet or hole or orifice or port\$3 or opening))) and (((AC or RF or		
		supplemental) adj voltage) near3		
		(broadband or (frequency adj (scan\$4 or vari\$6))))) and (hole near3 endcap)		
34	19	(((((250/281,282,290,292).CCLS.) and   ((ion adj trap) near3 (mass adj	USPAT; US-PGPUB	2003/12/03
		spectromet\$5))) and ((gas near3 introd\$7) near5 (inlet or hole or orifice or port\$3		
		or opening))) and ((gas near3 introd\$7)		
		near5 (inlet or hole or orifice or port\$3 or opening))) or		
		(((((250/281,282,290,292).CCLS.) and ((ion adj trap) near3 (mass adj		
		spectromet\$5))) and ((gas near3 introd\$7)		
		near5 (inlet or hole or orifice or port\$3 or opening))) and dissociat\$5)		
35	30	(((((250/281,282,290,292).CCLS.) and ((ion adj trap) near3 (mass adj	USPAT; US-PGPUB	2003/12/03 12:55
		spectromet\$5))) and ((gas near3 introd\$7)		
		near5 (inlet or hole or orifice or port\$3 or opening))) and ((gas near3 introd\$7)		
		<pre>near5 (inlet or hole or orifice or port\$3 or opening))) or</pre>		
		(((250/281,282,290,292).CCLS.) and (((AC or RF or supplemental) adj voltage) near3		
		(broadband or (frequency adj (scan\$4 or		
	L	vari\$6)))))		

36	0	((((((250/281,282,290,292).CCLS.) and	USPAT;	2003/12/03
		((ion adj trap) near3 (mass adj	US-PGPUB	12:55
		spectromet\$5))) and ((gas near3 introd\$7)	00 10102	-2.00
		near5 (inlet or hole or orifice or port\$3		
		or opening))) and ((gas near3 introd\$7)		
	]	near5 (inlet or hole or orifice or port\$3		
		or opening))) or		
		(((250/281,282,290,292).CCLS.) and (((AC		
		or RF or supplemental) adj voltage) near3		
	ļ	(broadband or (frequency adj (scan\$4 or		
		vari\$6)))))) and (pulse\$2 near3 valve)		
37	1	((((((250/281,282,290,292).CCLS.) and	USPAT;	2003/12/03
		((ion adj trap) near3 (mass adj	US-PGPUB	13:35
	ì	spectromet\$5))) and ((gas near3 introd\$7)		
	İ	near5 (inlet or hole or orifice or port\$3		
		or opening))) and ((gas near3 introd\$7)		
		near5 (inlet or hole or orifice or port\$3		
		or opening))) or		
		(((250/281,282,290,292).CCLS.) and (((AC		
		or RF or supplemental) adj voltage) near3		
		(broadband or (frequency adj (scan\$4 or		
		vari\$6)))))) and (valve\$2 with   solenoid\$2)		
38	3	((((((250/281,282,290,292).CCLS.) and	USPAT;	2003/12/03
30	3	((ion adj trap) near3 (mass adj	US-PGPUB	13:36
		spectromet\$5))) and ((gas near3 introd\$7)	02 19101	15.50
		near5 (inlet or hole or orifice or port\$3		
		or opening))) and ((gas near3 introd\$7)		
		near5 (inlet or hole or orifice or port\$3		
		or opening))) or		
		(((250/281,282,290,292).CCLS.) and (((AC		
		or RF or supplemental) adj voltage) near3		
		(broadband or (frequency adj (scan\$4 or		
		vari\$6)))))) and (distance near3 mm)		

	Туре	L #	Hits	Search Text	DBs	Time Stamp	Comment
1	BRS	L1	1	20030085349.pn.	USPA T; US-P GPUB	2003/12/0	
2	BRS	L2	7	5451782.pn. or 5206507.pn. or 5200613.pn. or 5171991.pn. or 5352890.pn. or 4882484.pn. or 5198665.pn.	USPA T; US-P GPUB	2003/12/0 3 11:46	
3	IS&R	L3	1856	(250/281,282,290,292) .CCLS.	USPA T; US-P GPUB	2003/12/0 3 11:46	
4	IS&R	L4	0	("L3and((ionadjtrap)n ear3(massadjspectrome t\$4))").PN.	USPA T; US-P GPUB	2003/12/0 3 11:49	
5	BRS	L5	338	L3 and ((ion adj trap) near3 (mass adj spectromet\$5))	USPA T; US-P GPUB	2003/12/0 3 11:50	
6	BRS	L6	19	L5 and ((gas near3 introd\$7) near5 (inlet or hole or orifice or port\$3 or opening))	USPA T; US-P GPUB	2003/12/0 3 12:08	
7	BRS	<b>L</b> 7	1	L6 and (((AC or RF or supplemental) adj voltage) near3 (broadband or (frequency adj (scan\$4 or vari\$6))))	USPA T; US-P GPUB	2003/12/0 3 12:35	
8	BRS	L8	0	L6 and (((AC or RF or supplemental) adj voltage) near3 ((frequency near3 scan\$4)))	USPA T; US-P GPUB	2003/12/0 3 11:59	
9	BRS	L9	0	L6 and ((supplemental adj voltage) with (frequency near3 scan\$4))	USPA T; US-P GPUB	2003/12/0 3 12:00	
10	BRS	L10	0	L7 and dissociation	USPA T; US-P GPUB	2003/12/0 3 12:00	
11	BRS	L11	0	L7 and dissociat\$5	USPA T; US-P GPUB	2003/12/0 3 12:01	

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	Error Definition	Er ro rs
1		0
2		0
3		0
4		0
5		0
6		0
7		0
8		0
9		0
10		0
11		0

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	Туре	L #	Hits	Search Text	DBs	Time Stamp	Comment
12	BRS	L12	9	L6 and dissociat\$5	USPA T; US-P GPUB	2003/12/0 3 12:02	
13	BRS	L13	6	L2 and dissociat\$5		2003/12/0 3 12:02	
14	BRS	L15	0	Ll2 and (bath adj gas)	USPA T; US-P GPUB	2003/12/0 3 12:05	
15	BRS	L14	1	L1 and dissociat\$5	USPA T; US-P GPUB	2003/12/0 3 12:06	
16	BRS	L16		L6 and ((gas near3 introd\$7) near5 (inlet or hole or orifice or port\$3 or opening) near3 (ring adj electrode))	USPA T; US-P GPUB	2003/12/0 3 12:09	
17	BRS	L17	19	L6 and ((gas near3 introd\$7) near5 (inlet or hole or orifice or port\$3 or opening))	USPA T; US-P GPUB	2003/12/0 3 12:09	
18	BRS	L18	1	(inlet or hole or orifice or port\$3 or	USPA T; US-P GPUB	2003/12/0 3 12:11	
19	BRS	L19	0	L6 and ((gas near3 hole) with (ring adj electrode))		2003/12/0 3 12:10	
20	BRS	L20	1	orifice or port\$3 or	USPA T; US-P GPUB	2003/12/0 3 12:11	
21	BRS	L21	0	L5 and ((gas near3 introd\$7) near5 (inlet or hole or orifice or port\$3 or opening) near3 (ring adj electrode))	USPA T; US-P GPUB	2003/12/0 3 12:12	

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	Error Definition	Er ro
12		0
13		0
14		0
15		0
16		0
17		0
18		0
19		0
20		0
21		0

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	Туре	L #	Hits	Search Text	DBs	Time Stamp	Com
22	BRS	L22	13	L5 and ((inlet or hole or orifice or port\$3 or opening) near3 (ring adj electrode))	USPA T; US-P GPUB	2003/12/0	7
23	BRS	L23	3	5399857.pn. or 6005245.pn. or 6469298.pn.	USPA T; US-P GPUB	2003/12/0	
24	BRS	L24	12	L3 and (((AC or RF or supplemental) adj voltage) near3 (broadband or (frequency adj (scan\$4 or vari\$6)))	USPA T; US-P GPUB	2003/12/0 3 12:44	
25	BRS	L25	0	L23 and (((AC or RF or supplemental) adj voltage) near3 (broadband or (frequency adj (scan\$4 or vari\$6))))	USPA T; US-P GPUB	2003/12/0 3 12:34	
26	BRS	L26	1	6627875.pn.	USPA T; US-P GPUB	2003/12/0 3 12:35	
27	BRS	L27		L26 and (((AC or RF or supplemental) adj voltage) near3 (broadband or (frequency adj (scan\$4 or vari\$6))))	USPA T; US-P GPUB	2003/12/0 3 12:35	
28	BRS	L28		L23 and (((AC or RF or supplemental) adj voltage) near3 (broadband or (frequency adj (scan\$4 or vari\$6))))		2003/12/0 3 12:44	
29	BRS	L29	0	voltage) near3	USPA T; US-P GPUB	2003/12/0 3 12:44	
30	BRS	L30	1	voltage) near3 (broadband or		2003/12/0 3 12:54	

	Error Definition	Er ro rs
22		0
23		0
24		0
25		0
26		0
27		0
28		0
29		0
30		0

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!	Туре	L#	Hits	Search Text	DBs	Time Stamp	Comment s
31	BRS	L31	0	L17 and (((AC or RF or supplemental) adj voltage) near3 ((frequency adj (scan\$4 or vari\$6))))	USPA T; US-P GPUB	2003/12/0 3 12:46	
32	BRS	L32	48	L30 (hole near3 endcap)	USPA T; US-P GPUB	2003/12/0 3 12:47	
33	BRS	L33	0	L30 and (hole near3 endcap)		2003/12/0 3 12:47	
34	BRS	L34	19	L17 or L12	USPA T; US-P GPUB	2003/12/0 3 12:54	
35	BRS	L35	30	L17 or L24		2003/12/0 3 12:55	
36	BRS	L36	0	L35 and (pulse\$2 near3 valve)	USPA T; US-P GPUB	2003/12/0 3 12:55	
37	BRS	L37	1	L35 and (valve\$2 with solenoid\$2)	USPA T; US-P GPUB	2003/12/0 3 13:35	
38	BRS	L38	3	L35 and (distance near3 mm)	USPA T; US-P GPUB	2003/12/0 3 13:36	

31	0
32	0
33	0
34	0
35	0
36	0
37	0
38	0